USCMS Engineer Status Report for August 2003

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1 Work Performed This Month

I continued with the development of simulation models for several basic distributed systems to test the entire Monarc system. The examples contain NSF cluster farms, FTP based cluster farms and distributed scheduling schemes for jobs among several regional center using a realistic topology of the WAN. These examples are also very useful for developing complex computing models.

We redesign the web page for the MonALISA . The global GUI has now 3D representation for farms, WAN connections as well as for the quality of connections measured with ABping. The global GUI was improved and new features to show optimized graph representations for connectivity are included.

The MonALISA repository was extended to provide WSDL/SOAP access to the values connected from all the sites which are part of selected communities. This is a unified approach which allows using exactly the same web services interfaces to access data from MonALISA services and repositories. The entire repository system was packet into a distribution having scripts for an easy installation and configuration.

I developed client examples for the WSDL/SOAP interface based on Apache AXIS , Apache WSIF and perl lite . These client examples may be used by those interested to develop higher level services than need monitoring information.